

11977wo 2005-02-21

11

Claims

1. Cutting tool comprising, on one hand, a basic body (1) having an insert seat, and on the other hand a cutting  
5 insert (2), which is detachably connected in the insert seat and rigidly secured in the same by means of connecting surfaces (3, 5) of serration type, one of which forms said insert seat(3), and comprises first and second ridges (18, 19), which extend perpendicularly to each other,  
10 c h a r a c t e r i z e d in that at least the connecting surface that forms the insert seat(3) comprises, on one hand, two spaced-apart surface fields or sets (A, B) of a plurality of mutually parallel, first ridges (18A, 18B), which are arranged in extension of each other, and on the  
15 other hand one or more second, transverse ridges (19), which are located between the two sets of first ridges (18A, 18B).

2. Basic body of a cutting tool, comprising a connecting  
20 surface (3) of serration type serving as insert seat, in which connecting surface first and second ridges (18, 19) are included, which extend perpendicularly to each other in order to guarantee mechanical locking in two directions perpendicular to each other, c h a r a c t e r i z e d in  
25 that the connecting surface (3) comprises, on one hand, two spaced-apart sets (A, B) of a plurality of mutually parallel, first ridges (18A, 18B), which are arranged in extension of each other, and on the other hand one or more second, transverse ridges (19), which are located between  
30 the two sets of first ridges (18A, 18B).

3. Basic body according to claim 2,  
c h a r a c t e r i z e d in that at least crests (21) of  
the first and second ridges (18A, 18B, 19) are located in a  
35 common plane.

4. Basic body according to claim 3,  
c h a r a c t e r i z e d in that between an individual transverse ridge (19) and a nearby set of first ridges

11977wo 2005-02-21

12

(18A, 18B), a third type of serrations are formed in the form of a plurality of tops (24), which are located in a row (19A, 19B) parallel to the transverse ridge, and are mutually spaced apart by extensions (24) of the grooves (22) that separate said first ridges (18A, 18B) laterally.

5. Basic body according to claim 2, characterized in that at least the crest (21) of the transverse ridge or ridges (19) are situated in another plane than the crests (21) of the first ridges (18A, 18B).

6. Basic body according to claim 5, characterized in that the transverse ridge or ridges (19) are countersunk in relation to the first ridges (18A, 18B).

7. Basic body according to claim 6, characterized in that the transverse ridge or ridges (19) are countersunk to a level on which their crests are in or below an imaginary plane in which the bottoms (23) of the grooves (22) positioned between the first ridges (18A, 18B) are located.

8. Cutting insert of a cutting tool, comprising a connecting surface (5) of serration type, in which ridges are included, which are delimited by intermediate grooves, characterized in that the connecting surface (5) comprises, on one hand, two spaced-apart sets of a plurality of mutually parallel, first ridges (18A, 18B), which are arranged in extension of each other, and on the other hand one or more second, transverse ridges or tops (19, 16), which are located between the two sets of first ridges (18A, 18B).